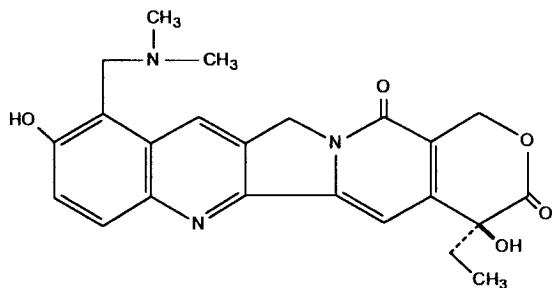


TOPOTECAN

NSC - 609699



* HCl

Chemical Name:

4-Ethyl-4,9-dihydroxy-10-(dimethylamino)methyl]-1*H*-pyrano-[3',4':6,7]-indolizino[1,2-*b*]quinoline3,14(4*H*,12*H*)-dione, (*S*)-hydrochloride salt

Other Names:

SKF 104864-A; Hycamptamine

Molecular Formula: C₂₃H₂₃N₃O₅·HCl

M.W.: 457.9

Solubility:

Water	soluble
Methanol	soluble
Ethanol	insoluble
Dimethylformamide	soluble

Ultraviolet Absorption:

(MeOH)

λ_{max}	ϵ
207 \pm 2 nm	21,484
224 \pm 2 nm	39,009
269 \pm 2 nm	22,902
296 \pm 2 nm	6,783
318 \pm 2 nm	10,003
332 \pm 2 nm	13,091
371 \pm 2 nm	19,267
384 \pm 2 nm	22,718

High Performance Liquid Chromatography:

- Column:** Zorbax RX, 250 x 4.6 mm i.d. (Waters Assoc.), with a universal prefilter (Alltech)
- Mobile Phase:** 15% CH₃CN/0.1M ammonium acetate, adjusted to pH 4.0 with acetic acid.
- Flow Rate:** 1.2 mL/min
- Detection:** UV at 254 nm
- Sample Preparation:** Sample is dissolved in methanol to provide a solution having \approx 0.45 mg/mL of Topotecan and 0.22 mg/mL Internal Standard.

Internal Standard: p-Hydroxyacetophenone

Retention Volume: 13.4 mL (NSC - 609699)
16.0 mL (I.S)